

POWER SYSTEMS ENGINEERING

& Value Added Services

AE200-x4x1 Series



SPECIAL FEATURES

- DC Input
- Input under voltage cut out
- High Efficiency
- Built in EMI filter (VDE B)
- High MTBF
- Short circuit protection
- Overvoltage protection
- Power good signal

SAFETY

UL UL1950
CSA CSA22.2-234
EN60950

ENVIRONMENTAL

Operating Temperature: 0° to 50°C

Humidity: 5 to 95%, non condensing

Storage Temperature: -25° to 70°C

Cooling: Self contained fan

MTBF: >100,000 hours at full load and
25°C ambient conditions.

ELECTRICAL SPECIFICATIONS

Input

Input range	48V Version	43.5 to 72.0 VDC
	24V Version	19.0 to 36.0 VDC

Inrush Soft start limits inrush, maximum current is normal operating current

Efficiency >70% @ full load

EMI filter FCC Class B
CSA C108.8(Class B)
EN55022 Class B

Output

Maximum power 200W (105W for AE160 version)

Hold-up time >2mS measured at full load, nominal input

Transient response 10% maximum deviation with 1mS
recovery time to within 100mV (+5)

Overload protection Output current limited, unit latches off.
Toggle enable or DC input to unlatch

Over voltage protection <136% of nominal output, on all outputs
unit latches off. Toggle enable or DC input
to unlatch

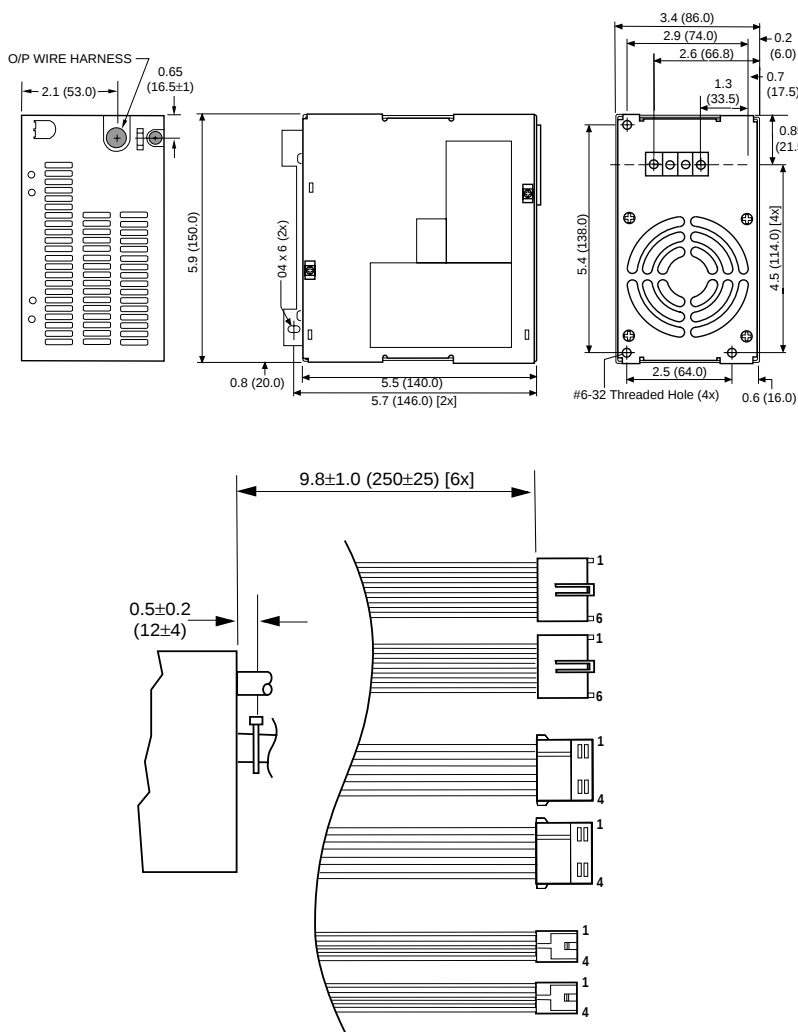
Power Good TTL compatible

ORDERING INFORMATION

Model Number	Input Voltage	Output	Voltage	Regulation	Min Load	Max Load	Ripple P/P (PARD)
AE200-4451	24	V1	+5V	+5%, -0%	2.0A	20.0A	50mV
		V2	+12V	+/-5%	1A	8A	120mV
		V3	-12V	+/-10%	0A	0.5A	120mV
		V4	-5V	+/-10%	0A	0.5A	70mV
AE200-4481	48	V1	+5V	+5%, -0%	2.0A	20.0A	50mV
		V2	+12V	+/-5%	1A	8A	120mV
		V3	-12V	+/-10%	0A	0.5A	120mV
		V4	-5V	+/-10%	0A	0.5A	70mV
AE160-4300	48V	V1	+5V	+5%, -0%	2.0A	19.5A	50mV
		V2	+12V	+/-5%	0A	0.5A	120mV
		V3	-12V	+/-5%	0A	0.1A	120mV

DRAWINGS

Note: Same as SA201-3438-B except a barrier strip replaces the AC connectors.
The AE160 has the input connector and the fan positions exchanged.



PIN ASSIGNMENTS

Connector	PinOutput	Mating Connector
P1	1 Power good	Molex 8619-0602
	2 +5 or equivalent	
	3 +12V	
	4 -12V	
	5 Common	
	6 Common	
P2	1 Common	Molex 8619-0602 or equivalent
	2 Common	
	3 -5V (0.5A)	
	4 +5V (4A)	
	5 +5V (4A)	
	6 +5V (4A)	
P3, P4	1 +12V (3.3A)	Molex 8981-4V or Amp 1-480426-0
	2 Common	
	3 Common	
	4 +5V (3.6A)	
P5, P6	1 +12V (3.3A)	Amp 171825-4
	2 Common	
	3 Common	
	4 +5V (3.6A)	

NOTES

- Specification subject to change without notice.
- Warranty: 1 years.